

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|--|------------------------------|------------------|---------|------------------|
| S1 | 3666408 | search history prior to this string lost by EAST crash | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 10:20 |
| S2 | 11 | "4442335".pn. "4641820".pn. "5216800".pn. "5788225".pn. "6073325".pn. "6089557".pn. "6145180".pn. "6360421".pn. "6378190".pn. "6389698".pn. "6642423".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 10:28 |
| S3 | 8 | "6334252".pn. "4369563".pn. "3854889".pn. "20020100159".pn. "6378186".pn. "6065200".pn. "5371679".pn. "5272805".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 10:50 |
| S6 | 589 | 29/897.2.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 10:30 |
| S7 | 562 | 29/430.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 10:30 |
| S8 | 543 | 29/429.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 10:30 |
| S9 | 785 | 29/469.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 10:30 |
| S10 | 241 | 29/783.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 10:31 |
| S11 | 183 | 29/791.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 10:31 |
| S12 | 259 | 29/822.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 10:31 |
| S13 | 138 | 29/823.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 10:31 |
| S14 | 2894 | S6 S7 S8 S9 S10 S11 S12 S13 | US-PGPUB; USPAT | OR | OFF | 2005/09/23 10:31 |
| S15 | 5 | "6378186".pn. "6065200".pn. "5371679".pn. "5272805".pn. "4683651".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 10:51 |
| S16 | 1 | S15 and cells | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 10:52 |
| S17 | 1 | S15 and cell\$5 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 10:52 |
| S18 | 84 | S14 and cells | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 10:52 |
| S19 | 38 | S14 and (cells same process\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 10:58 |

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| S20 | 389 | S14 and (automobile automotive) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 10:58 |
| S21 | 104 | S20 and (cell\$4 group\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 13:44 |
| S22 | 1 | "5127569".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:07 |
| S23 | 81 | (tabletop or "table top") and tilt\$3 and manufacturing and workpiece | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:08 |
| S24 | 41 | (tabletop or "table top") and tilt\$3 and manufacturing and workpiece and weld\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:11 |
| S25 | 121 | (tilt\$3 with workpiece) and manufacturing and weld\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:15 |
| S26 | 58 | (tilt\$3 near3 workpiece) and manufacturing and weld\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:18 |
| S27 | 166 | (tilt\$3 near3 workpiece) same table\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:20 |
| S28 | 38 | S27 and weld\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:40 |
| S29 | 1 | "6378190".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:45 |
| S30 | 1 | "6438842".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:46 |
| S31 | 16 | "pedestal welder" | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:47 |
| S32 | 16 | "pedestal welder" "pedestal welders" | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:47 |
| S33 | 6202 | weld\$3 and robot | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/09/23 16:47 |
| S34 | 43 | weld\$3 and robot | USOCR | OR | OFF | 2005/09/23 16:48 |
| S35 | 0 | robot.ti. and weld\$3.ti. | USOCR | OR | OFF | 2005/09/23 16:48 |
| S36 | 88 | robot.ti. and weld\$3.ti. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 16:52 |
| S37 | 0 | robot.ti. and weld\$3.ti. and pedestal | US-PGPUB; USPAT | OR | OFF | 2005/09/23 16:49 |

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| S38 | 13 | robot.ti. and workpiece.ti. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 16:55 |
| S39 | 604 | robot same workpiece same weld\$3 | US-PGPUB; USPAT | OR | OFF | 2005/09/23 16:55 |
| S40 | 178 | robot same workpiece same weld\$3 same (hold\$3 manipul\$3) | US-PGPUB; USPAT | OR | OFF | 2005/09/23 16:55 |
| S41 | 51 | robot with workpiece with weld\$3 with (hold\$3 manipul\$3) | US-PGPUB; USPAT | OR | OFF | 2005/09/23 17:08 |
| S42 | 58 | seventh with axis with slide | US-PGPUB; USPAT | OR | OFF | 2005/09/23 17:09 |
| S43 | 12 | seventh with axis with slide with dual | US-PGPUB; USPAT | OR | OFF | 2005/09/23 17:08 |
| S44 | 158 | "seventh axis" | US-PGPUB; USPAT | OR | OFF | 2005/09/23 17:09 |
| S45 | 14 | "seventh axis" with slide | US-PGPUB; USPAT | OR | OFF | 2005/09/23 17:09 |
| S46 | 15 | "seventh axis" with slid\$3 | US-PGPUB; USPAT | OR | OFF | 2005/09/26 09:52 |
| S47 | 0 | robot\$2.ti. and "dual stations" | US-PGPUB; USPAT | OR | OFF | 2005/09/26 09:52 |
| S48 | 0 | robot\$2.ti. and "dual station" | US-PGPUB; USPAT | OR | OFF | 2005/09/26 09:52 |
| S49 | 55 | robot\$2.ti. and ((plurality multiple) adj (workpieces workstations)) | US-PGPUB; USPAT | OR | OFF | 2005/09/26 10:01 |
| S50 | 456 | "welding gun" and robot | US-PGPUB; USPAT | OR | OFF | 2005/09/26 10:01 |
| S51 | 105 | "welding gun" and robot\$2.ti. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 10:01 |
| S52 | 8 | "welding gun".ti. and robot\$2.ti. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 10:12 |
| S53 | 1 | "5014901".pn. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 10:35 |
| S54 | 0 | ("indexing shuttle" "indexing shuttles") and fixture\$1 and workpiece\$1 and (independent\$2 with control\$2) | US-PGPUB; USPAT | OR | OFF | 2005/09/26 10:36 |
| S55 | 14 | ("indexing shuttle" "indexing shuttles") and fixture\$1 and workpiece\$1 | US-PGPUB; USPAT | OR | OFF | 2005/09/26 10:42 |
| S56 | 2 | (multipl\$5 plural\$3) with "independently controlled" with workpieces | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:28 |
| S57 | 1 | "6334252".pn. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:32 |
| S58 | 14 | "laser welding robot" | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:41 |

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| S59 | 9 | "5225650".pn. "6378190".pn. "3763344".pn. "5007784".pn. "5738564".pn. "5014901".pn. "4621516".pn. "6334252".pn. "5115115".pn. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:20 |
| S60 | 0 | S59 and (press same welding) | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:42 |
| S61 | 16 | "press welding" same fixture | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:43 |
| S62 | 242 | "press welding" | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:43 |
| S63 | 33 | "press welding" and fixture | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:44 |
| S64 | 17 | S63 NOT S61 | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:43 |
| S65 | 242 | press adj welding | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:45 |
| S66 | 230 | S65 NOT ghuman | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:53 |
| S67 | 32 | "press welder" | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:54 |
| S68 | 2 | "6515251".pn. "6743331".pn. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 11:59 |
| S69 | 1 | "6642423".pn. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:02 |
| S70 | 4 | stiers and hemmer | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:13 |
| S71 | 1 | "6642473".PN. | USPAT; USOCR | OR | OFF | 2005/09/26 12:03 |
| S72 | 1 | "5239739".pn. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:15 |
| S73 | 1 | "6378190".pn. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:15 |
| S74 | 10 | "5225650".pn. "6378190".pn. "3763344".pn. "5007784".pn. "5738564".pn. "5014901".pn. "4621516".pn. "6334252".pn. "5115115".pn. "5239739".pn. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:20 |
| S75 | 2 | S74 and pallet | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:24 |
| S76 | 221 | "sealant applicator" | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:24 |
| S77 | 42 | "sealant applicator".ti. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:24 |
| S78 | 1 | "sealant applicator".ti. and robot | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:27 |

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| S79 | 652 | sato and roller and weld\$ | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:27 |
| S80 | 1 | "6334252".pn. and weld\$ | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:31 |
| S81 | 2 | "welding gate fixture" | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:33 |
| S82 | 13 | "5225650".pn. "6378190".pn. "3763344".pn. "5007784".pn. "5738564".pn. "5014901".pn. "4621516".pn. "6334252".pn. "5115115".pn. "6515251".pn. "6642473".pn. "5239739".pn. "6001181".pn. | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:34 |
| S83 | 10 | S82 and (clamp\$3 grip\$3) | US-PGPUB; USPAT | OR | OFF | 2005/09/26 12:34 |